

ABSTRACTIMPROVED SURGICAL TOOL MECHANISM

The surgical tool comprises a longitudinally extending waveguide (1) defining a longitudinal axis (2). A first jaw member (1b) is connected at a distal end of the waveguide (1). A longitudinally extending carrier tube (3) is rotatable about the waveguide (1) and a second jaw member (6) is pivotably mounted to a distal end of the carrier tube (3). An outer shroud (7) includes a guide lobe (9) bearing on a rearward face of the second jaw member. Rotation of the carrier tube (3) causes pivoting of the second jaw member (6) into and out of operative relationship with the first jaw member (1b).

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
9 October 2003 (09.10.2003)

PCT

(10) International Publication Number  
**WO 03/082133 A1**

(51) International Patent Classification<sup>7</sup>: **A61B 17/32**

(21) International Application Number: PCT/GB03/01336

(22) International Filing Date: 27 March 2003 (27.03.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0207318.7 28 March 2002 (28.03.2002) GB

(71) Applicants and

(72) Inventors: **YOUNG, Michael, John, Radley** [GB/GB];  
Bremridge House, Bremridge, Ashburton, South Devon  
TQ13 7JX (GB). **YOUNG, Stephen, Michael, Radley**  
[GB/GB]; Bremridge House, Bremridge, Ashburton,  
South Devon TQ13 7JX (GB).

(74) Agent: **GREGORY, Timothy, Mark**; 26 Cyril Street,  
Northampton NN1 5EL (GB).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD,  
SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US,  
UZ, VC, VN, YU, ZA, ZM, ZW.

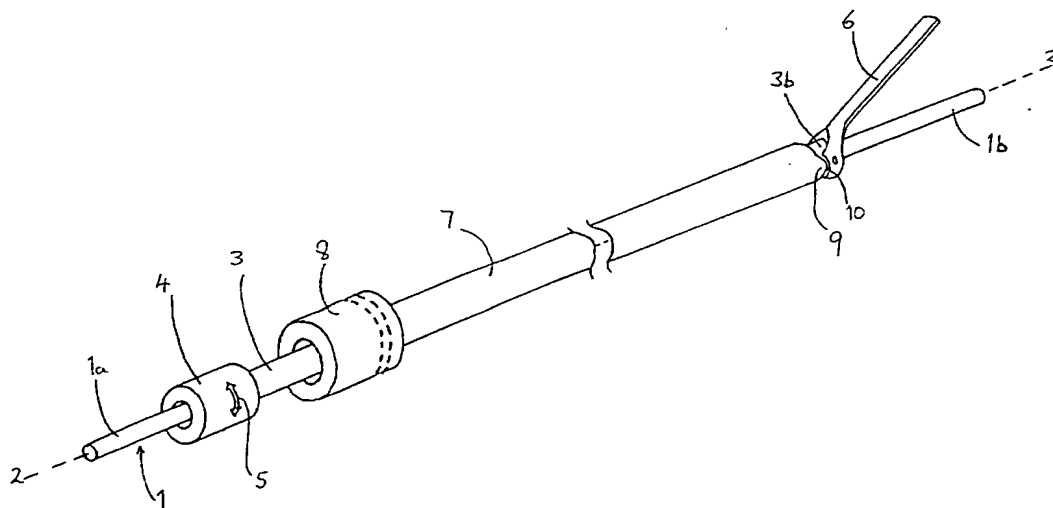
(84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,  
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IMPROVED SURGICAL TOOL MECHANISM



(57) Abstract: The surgical tool comprises a longitudinally extending waveguide (1) defining a longitudinal axis (2). A first jaw member (1b) is connected at a distal end of the waveguide (1). A longitudinally extending carrier tube (3) is rotatable about the waveguide (1) and a second jaw member (6) is pivotally mounted to a distal end of the carrier tube (3). An outer shroud (7) includes a guide lobe (9) bearing on a rearward face of the second jaw member. Rotation of the carrier tube (3) causes pivoting of the second jaw member (6) into and out of operative relationship with the first jaw member (1b).

WO 03/082133 A1